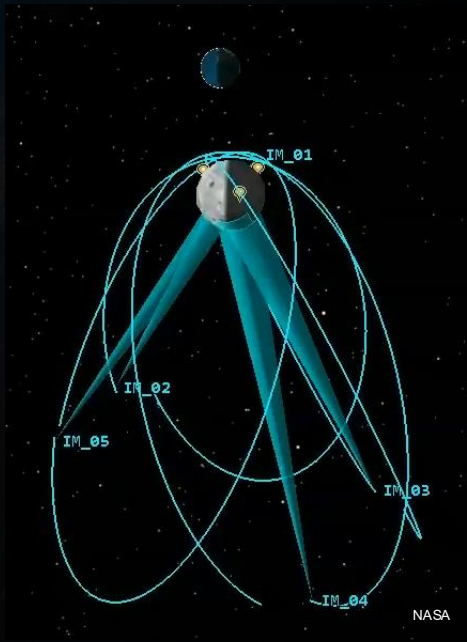
NASA Ames Mission Design Center:

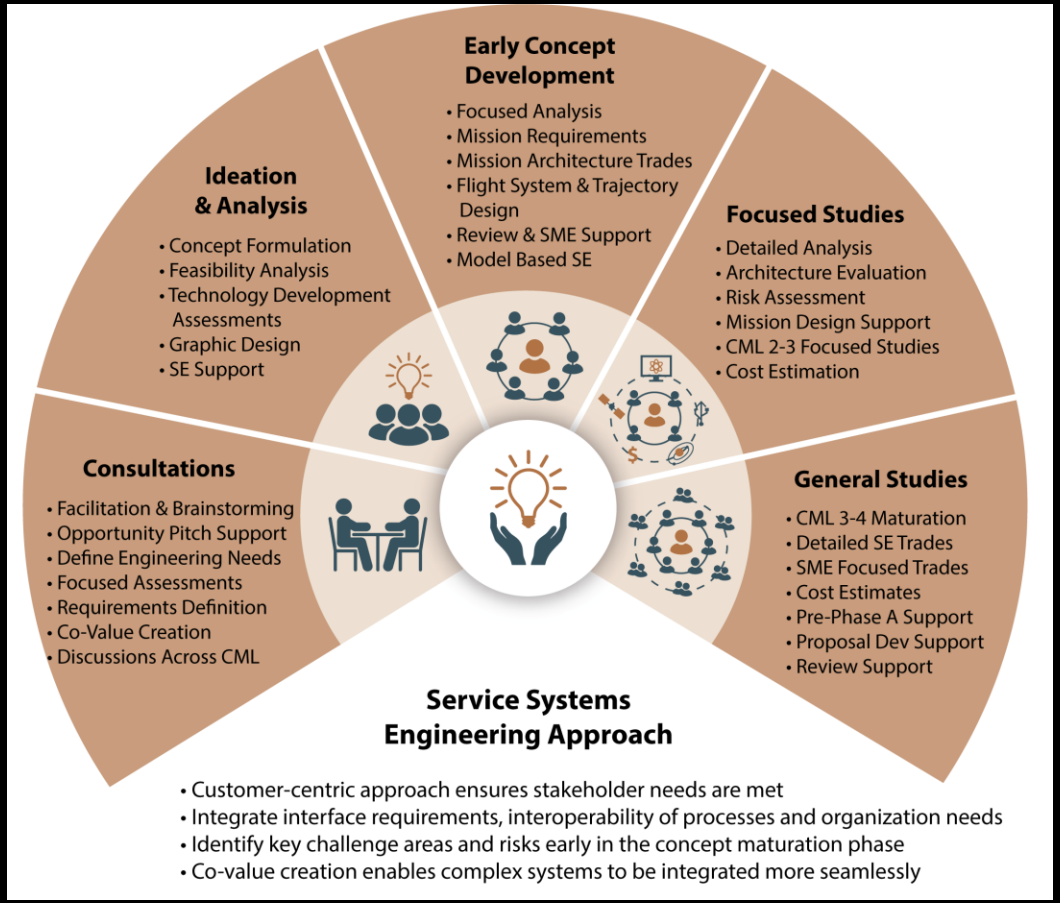
Imagining the Next Generation of Spaceflight Missions



Overview

The NASA Ames Mission Design Center (MDC) is a multi-disciplinary, concurrent engineering team that specializes in conceptual mission design.

The MDC collaborates with Scientists, Principal Investigators, Technologists, Industry Partners, and Institutions to take ideas from ‘napkin sketch’ to reality.



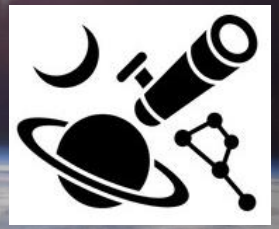
Communities Served



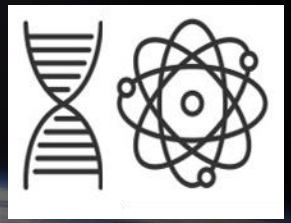
TECHNOLOGY



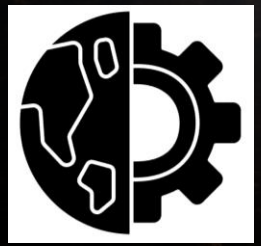
PLANETARY SCIENCE



ASTROPHYSICS



BIOLOGICAL & PHYSICAL SCIENCES



EARTH SCIENCE

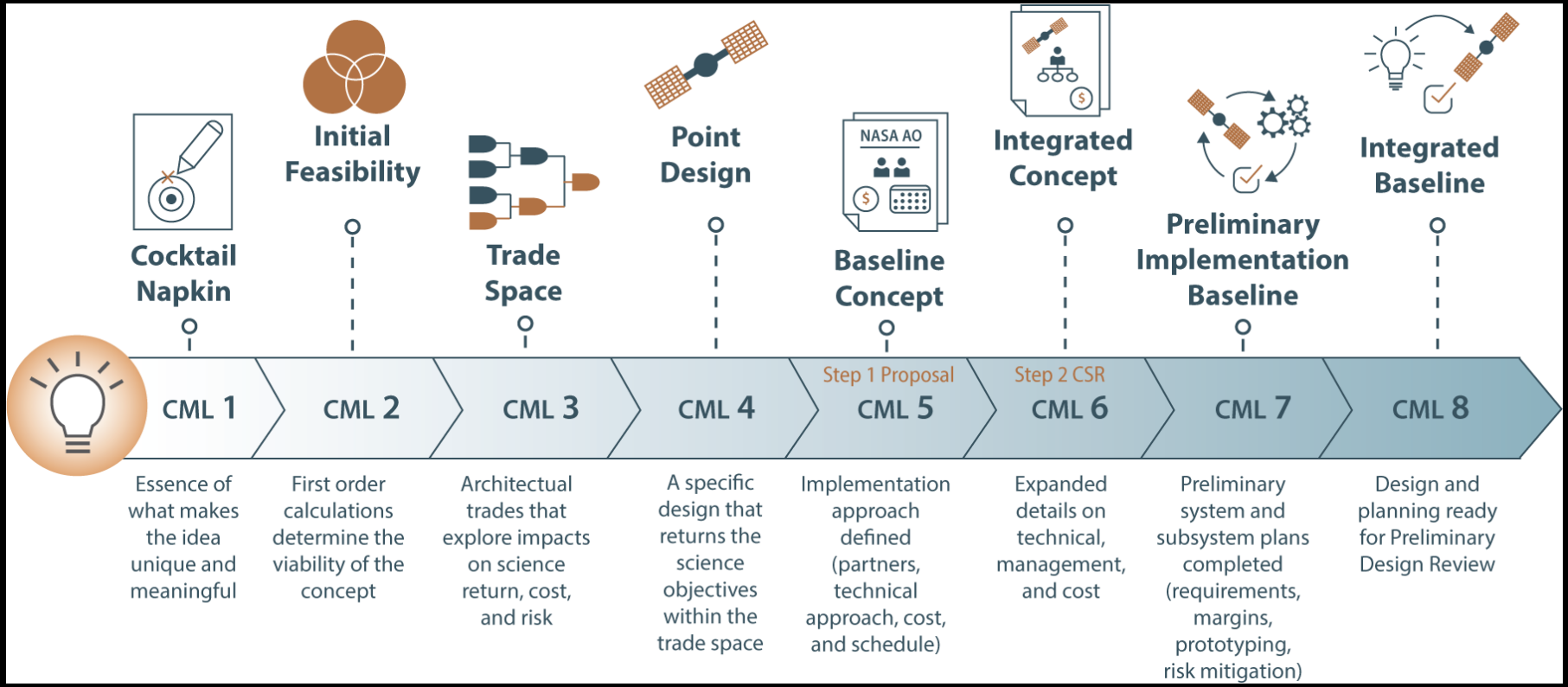


HELIOPHYSICS



HUMAN EXPLORATION

Concept Maturity Level



Accelerated Design

Rapidly develop:

- Master Equipment List
- Mass Breakdown
- Requirements
- Risks
- Orbits and Viewing Angles
- Power and Data Modes
- Power History
- Link Budgets and Data
- ΔV and Mass History



Launch Pad

The Mission Design Center helps teams investigate and develop new concept to further NASA's mission in science and exploration.

Join our community of innovation:

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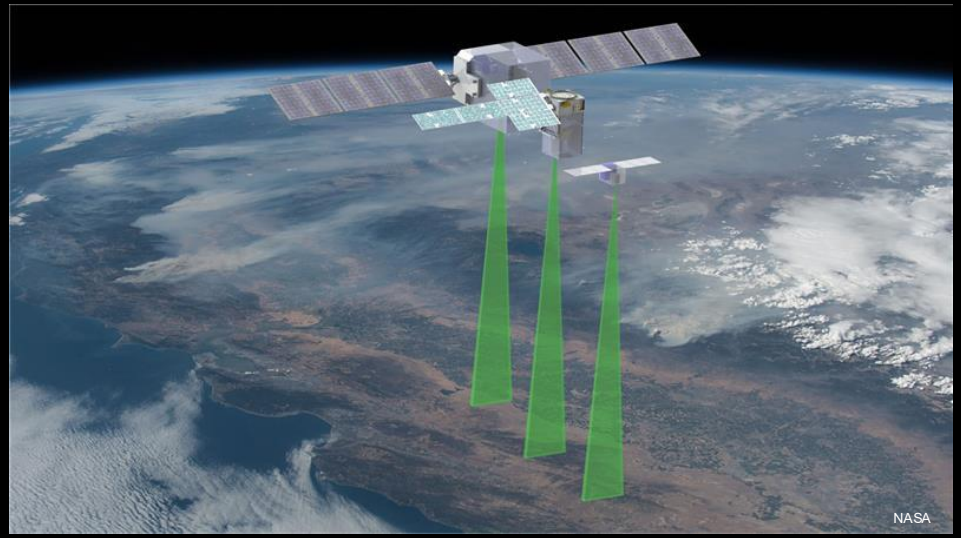



Exploring the secrets of the universe for the benefit of all.

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